

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) An isolated nucleic acid encoding a cyclic nucleotide-gated cation channel subunit 3B (CNG3B) polypeptide, the polypeptide:
  - (i) forming, with at least one cyclic nucleotide-gated channel (CNG) alpha subunit, a cation channel having the characteristic of cyclic nucleotide-gating; and
  - (ii) comprising a subsequence having that has at least 85% 95% amino acid sequence identity to SEQ ID NO:1.
2. (Canceled)
3. (Currently amended) The nucleic acid of claim 1, wherein the nucleic acid encodes a polypeptide comprising an the amino acid sequence of SEQ ID NO:1.
4. (Currently amended) The nucleic acid of claim 1, wherein the nucleic acid comprises a the nucleotide sequence of SEQ ID NO:2 or SEQ ID NO:3.
5. (Canceled)
6. (Original) The nucleic acid of claim 1, wherein the polypeptide comprises a beta subunit of a heteromeric cyclic nucleotide gated cation channel.
7. (Previously presented) The nucleic acid of claim 1, wherein the polypeptide comprises a subsequence having at least 95% amino acid sequence identity to SEQ ID NO:1.
- 8-17. (Canceled)
18. (Original) An expression vector comprising the nucleic acid of claim 1.

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PATENT

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19. (Currently amended) A An isolated host cell transfected with the vector of  
claim 18.